

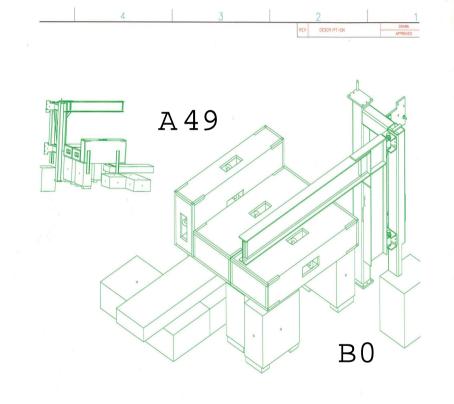
CDF Operations January Shutdown

Major tasks:

- Installation of shielding around West (A-side) low beta quads.
- ISL Cooling work complete opening of last epoxy blocked lines with laser
- Replace photomultiplier tubes on West CLC
- General Maintenance



Shielding Plan





A lcove Section (temp.shielding blocks)

Bridge Section



Installation of shielding around West(A-side) low beta quads

A 49



A lcove Section (temp.shielding blocks)

Bridge Section



shielding around West(A-side) low beta quads



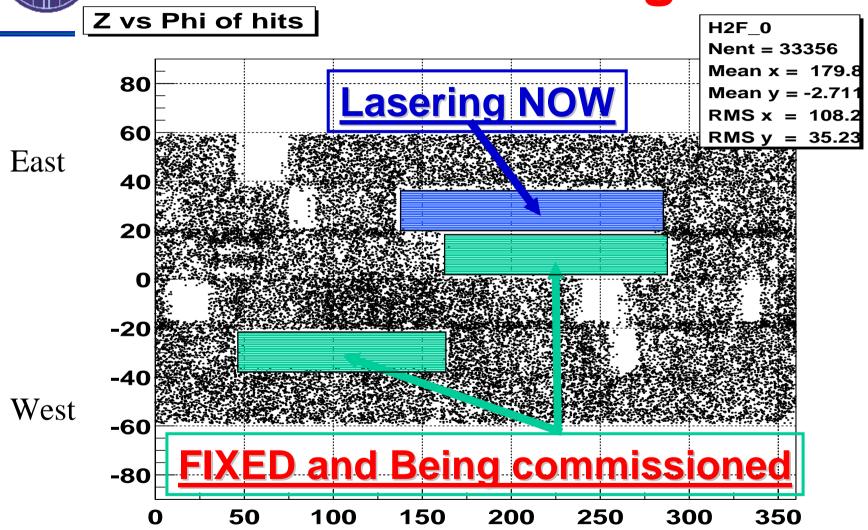


ISL Cooling work

- ISL has 34 cooling lines, in Mar-01 12 of them were blocked with epoxy.
- Went after 6 lines left after June '02 access.
 - 3 blocked and tough to fix because of access restrictions/limitations, thick epoxy blockages or both.
 - 3 had large temperature rise (~8-10 deg-C) from inlet to outlet.
 - problematic only for ISL Run2b rad doses
- As of Wednesday morning, only 1 blocked line left.
 - Remaining lines sufficiently opened such that the temperature rise
 (2-3 deg-C) is within the spec.
- The remaining very difficult line is being worked on...



ISL L6 coverage





Replace photomultiplier tubes on West CLC

- Replaced 47 of 48 PMTS on West Side
 - Lost gain thought to be due to helium contamination
 - (0.4 ADC/day dead by March 2003).
 - New tubes more stable
 - Rate of gain loss ~1/100 of old tubes.
 - Will lose < 30% of gain in 2fb⁻¹.
 - Checked with LED gain calibration
 - gains correspond to HV settings & stable
 - Leak checked holding pressure
- East tubes will be replaced this summer
 - Otherwise substantial gain loss by September '03



January Access Silicon status

Work Accomplished:

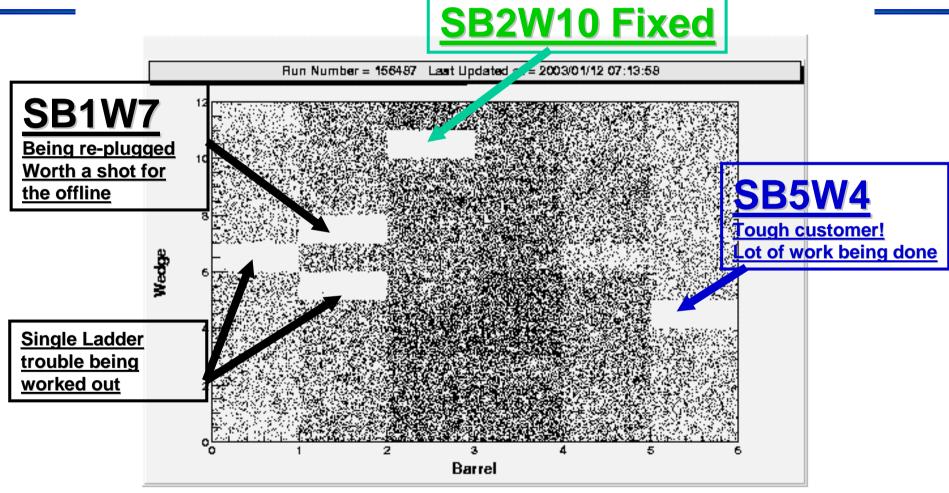
- SuperFIB upgrade
 - Still some work going on on firmware/sequences that has nothing to do with access time - 58 in all (38 done this access)
- Commissioning of newly cooled ISL ladders WEST
 - Done quickly on the WEST
- L00 P.S. installation(replacement)
 - Now 11/12 supply are L00 flavor (9/12)
- Miscellaneous P.S. work
 - Coping with radiation damage implied changing the scale of the Leakage current Ammeters
- General single point failures analysis and recovery
 - Recovered a SVXII Wedge (SB2W10)
- Moving SVXII CPC cooling from SVXII chiller to ISL chiller
 - Done on the WEST

Work yet to be done:

- General single point failures analysis and recovery
 - Working hard on a tough costumer (SB5W4)
 - Other single ladder work mainly on the optical data transmission line.
- Commissioning of <u>newly</u> cooled ISL ladders
 - Will start Thursday on the EAST
- Moving SVXII CPC cooling from SVXII chiller to ISL chiller
 - Started wednesday on the EAST



SVXII coverage (SVT)



This plot is the last run before the shut-down



January Access Calorimetry Status

- WHA/pisa box
 - Fix HV channels and PMTs
- CEM pmt
 - investigating gain problems in towers 2 & 3 of CEM 22E
- Central led/xenon
 - Fuse replaced in dead Xef wedge 3W
- SMXR
 - Mods in place for software reconfigure and resets.

- Plug sourcing calibrations
 - pem and pha will get finished this weekend
- Plug misc.
 - Replaced caen Power Supply
 - NW em timing project cabling
- Protection diode replacement
 - Calorimeter transition boards in ccal and pcal crates



January Access Trigger and L3/EVB

- Trigger work done so far
 - Readout List studies
 - New Fred Firmware
 - New preFred timing and firmware
 - Isolist studies
- Trigger work yet to do
 - L2 muon board
 - ROL studies
 - dynamic prescale testing
 - Test of Fred and Prefred changes
 - XFT bunch counter mismatches
 - Long xft test run this weekend.

L3 / Evb

- Integrated all 64 new processor nodes into the L3 farm
 - configured subfarms to balance the load on the converter nodes.
- Finished cabling work
- Updated HWDB and GUI's
- Tested new farm
- 268 PC's running L3 filters + converter and output pc's
 - subdivided into 16 subfarms w/16-18 processor nodes each.

(shutdown not required for this work)



January Access Muon Status

CMP

- top including blue beam and north wall done. 5/6 preamps on the bottom.
- South wall still to be fixed (no access) The counter on the top was fixed.

CCU

 All removed and replacements being installed.

CMX

fixed 9 CMX channelson Saturday in Wedges15E & 16E

CMU

Replaced power supply(7W)



January Access the rest...

- Miniplug and Roman Pots
 - Remaining 2 (of 12)
 miniplug transition
 boards to be done
 - 2 SMD boards w/squids for Roman Pot-2 to be installed. And 2 more to replace failing boards.
 - Cabling work for E. and
 W. miniplug.

- PEI low voltage power supply modifications
- TOF PMT replacement.
 - Fixed and tested ch350.
- Daq work
- Database
- IFIX
- Psmon
- HVAC work on the 3rd floor



Summary

- Accomplished major tasks on schedule.
 - A multitude of general maintenance jobs done as well
- Now in the process of putting things back together, checking alignments, closing steel, and performing subsystem testing as we go.
 - We've had to recover from 2 power outages in this period
- We are getting kicked out January 30th.
- Accelerator is coming out of the shutdown on schedule.
 - Tev cool down starts Monday Jan 27th, to have it cold by Wednesday